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APPLICATION N	١٥.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/699,250	-	10/30/2003	Philip W. Wyers	1990	2544	
24264	7590	05/04/2004		EXAMINER		
	HY J MAR		ARK, DARREN W			
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LAKEW	OOD, CO	80226		3643		
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	1 -					
	10/699,250	WYERS, PHILIP W.	8					
Office Action Summary	Examin r	Art Unit						
	Darren W. Ark	3643						
The MAILING DATE of this communication ap Period for Reply	pears on the cover shet with	th correspond nc address	•					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.4 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply ly within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTH e, cause the application to become ABAN	y be timely filed 30) days will be considered timely. IS from the mailing date of this communicat IDONED (35 U.S.C. § 133).	tion.					
Status								
1) Responsive to communication(s) filed on	<u>_</u> .							
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This	s action is non-final.							
) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 1	11, 453 O.G. 213.						
Disposition of Claims								
Claim(s) <u>1-28</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-28</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/o	or election requirement.							
Application Papers								
9)⊠ The specification is objected to by the Examine	er.							
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b) objected to by	the Examiner.						
Applicant may not request that any objection to the	= : :							
Replacement drawing sheet(s) including the correct								
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached C	Milice Action of form P10-152.	•					
Priority under 35 U.S.C. § 119								
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:		19(a)-(d) or (f).						
1. Certified copies of the priority documen		olication No						
<ul><li>2. Certified copies of the priority documen</li><li>3. Copies of the certified copies of the priority</li></ul>								
application from the International Burea		oorvou in the Hational Otago						
* See the attached detailed Office action for a list	, , ,	ceived.						
Attachment(s)								
Notice of References Cited (PTO-892)		nmary (PTO-413)						
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ul>		Mail Date rmal Patent Application (PTO-152) .						

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#### **DETAILED ACTION**

#### Specification

1. The disclosure is objected to because of the following informalities:

Page 1, top line, there should be a reference to the parent application 10/069,322 now

U.S. Pat. No. 6,651,380 of this present divisional application.

Appropriate correction is required.

### Claim Objections

2. Claims 1-15 are objected to because of the following informalities:

Claim 1, line 6, the term "is" should be inserted after "that".

Appropriate correction is required.

#### Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-4, 6-9, 11-14 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Winnicki 4,733,495.

Winnicki discloses a compression chamber (inside 18 including 38, 64); an elongated housing (44) extending from the compression chamber a selected distance

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(extends from 10 a certain distance depending upon whether the user has selected the compression chamber to be either in the uncompressed or compressed position); a partition (70); a moveable closure (86); a purge valve (26) associated with the housing and movable disposed over an opening formed through the housing (24 formed through rear wall of 18); a triggering assembly (98).

Winnicki discloses providing a housing (10) with a sidewall (walls of 10 including back wall 20) that surrounds a housing interior and which is partitioned (via inner structures including 22 or 70) into an upstream region (18) and a downstream region (84), a moveable closure (86); a purge valve (26) disposed over a purge opening (24), a compression chamber (18); evacuating air through the sidewall at the downstream region (see col. 4, lines 42-49) to establish a vacuum source; placing the moveable closure proximate to an insect (see Fig. 1, 80 is placed near an insect before attempted capture); and creating air pressure less than ambient pressure to cause the moveable closure to move into an open position (see col. 5, lines 25-30).

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Winnicki 4,733,495.

Winnicki discloses a bayonet slot (40) and pin (42) connection between the housing (44) and the compression chamber (piston 30), but does not disclose a clamp. It would have been an obvious matter of design choice to employ a clamp between the housing and the compression chamber since applicant has not disclosed that by doing so produces any unexpected results or is critical to the design, and it appears that the device of Winnicki would perform equally as well with a clamp, and because a clamp would be equally adept at securing two structures having circular cross sections.

7. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Winnicki 4,733,495 in view of Fahringer 4,817,330.

Alternatively, Winnicki does not disclose the compression chamber comprising a flexible bellows. Fahringer discloses a compression chamber comprising a flexible bellows. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to substitute the compression chamber of Winnicki for the flexible bellows of Fahringer in order to provide a compression chamber which is cheaper to manufacture with its less expensive materials such as rubber.

8. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Winnicki 4,733,495 in view of Kleinhenz 5,915,950.

Winnicki discloses a plurality of doors/fingers (at least a pair) resiliently biased into the first position (86 of Winnicki), but does not disclose the doors/fingers which are spring biased. Kleinhenz discloses a door (18, see Fig. 4) which is spring biased (see

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col. 4, lines 1-14 esp. lines 13, 14). It would have been obvious to a person of ordinary skill in the art to modify the doors of Winnicki such that they are spring biased in view of Kleinhenz in order to provide mechanical biasing means which will assuredly bias the doors into the first position and utilize a biasing mechanism that is less prone to wear versus the resilient material of the fingers of Winnicki.

9. Claims 1-9, 11, 14-18, 20, 21, 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over German Pat. No. 3225330 to Zoz in view of Winnicki 4,733,495.

In regard to claims 1 and 16, Zoz discloses a compression chamber (7, 18); a housing (3, 6) which is selectively extensible (housing sections can be moved relative to each other at 4), includes a plurality of housing sections (3, 6), a primary housing section (6) releasably attached to the compression chamber (at 25, 26) and is formed by a pair of primary housing pieces (5, 22); a partition (14); a triggering assembly (8, 9, 34-36) coupled to the compression chamber (via 18-21 and also by interconnection of the parts of the device), including a plunger shaft (19 or 31), a trigger switch (9), a trigger guard (35, 36); and an obstruction (12) disposed on a free end portion of the housing (between 1, 2), but does not disclose the movable closure being biased into the first position and wherein the movable closure is urged into the second position upon actuation of the compression chamber. Winnicki discloses the movable closure (86) being biased into the first position and wherein the movable closure is urged into the second position upon actuation of the compression chamber. It would have been obvious to a person of ordinary skill in the art to substitute the movable closures of

Winnicki for the obstruction of Zoz in order to provide means which will assuredly seal off the housing and prevent any insects from escaping from the free end thereof.

In regard to claim 5, Zoz discloses an interference connection (25, 26) between the housing (6) and the compression chamber (7) and Winnicki discloses a bayonet connection. It would have been an obvious matter of design choice to employ a clamp between the housing and the compression chamber since applicant has not disclosed that by doing so produces any unexpected results or is critical to the design, and it appears that the device of Zoz and Winnicki would perform equally as well with a clamp, and because a clamp would be equally adept at securing two structures having circular cross sections.

10. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over German Pat. No. 3225330 to Zoz in view of Winnicki 4,733,495 as applied to claim 9 above, and further in view of Fahringer 4,817,330.

Alternatively, Zoz and Winnicki do not disclose the compression chamber comprising a flexible bellows. Fahringer discloses a compression chamber comprising a flexible bellows. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to substitute the compression chamber of Zoz for the flexible bellows of Fahringer in order to provide a compression chamber which is cheaper to manufacture with its less expensive materials such as rubber.

11. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over German Pat. No. 3225330 to Zoz in view of Winnicki 4,733,495 as applied to claim 9 above, and further in view of Kleinhenz 5,915,950.

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Zoz and Winnicki disclose a plurality of doors/fingers (at least a pair) resiliently biased into the first position (86 of Winnicki), but do not disclose the doors/fingers which are spring biased. Kleinhenz discloses a door (18, see Fig. 4) which is spring biased (see col. 4, lines 1-14 esp. lines 13, 14). It would have been obvious to a person of ordinary skill in the art to modify the doors of Zoz and Winnicki such that they are spring biased in view of Kleinhenz in order to provide mechanical biasing means which will assuredly bias the doors into the first position and utilize a biasing mechanism that is less prone to wear versus the resilient material of the fingers of Winnicki.

12. Claims 12, 13, 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over German Pat. No. 3225330 to Zoz in view of Winnicki 4,733,495 as applied to claims 11, 16 above, and further in view of Schuman 3,965,608.

Zoz and Winnicki disclose a purge valve (26 of Winnicki) associated with the compression chamber and which is moveably disposed over an opening (24) formed in the compression chamber, but do not disclose a purge valve associated with the housing and where the purge valve is disposed over an opening formed through the housing. Schuman discloses a purge valve (32) disposed over an opening (generally 35) in the housing (10). It would have been obvious to a person of ordinary skill in the art to modify the device of Zoz and Winnicki such that the purge valve is disposed over an opening in the housing in view of Schuman in order to direct exhausted air in a transverse direction away from either the user or any insects to which the device may be directed so as to reduce both user annoyance and scaring of the intended target insects.

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13. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over German Pat. No. 3225330 to Zoz in view of Winnicki 4,733,495 as applied to claim 17 above, and further in view of Stine et al. 1,797,557.

Zoz and Winnicki disclose the plunger shaft connected to the butt end of the compression chamber (19 or 31 is connected to the back end of 7 [19 coupled by interconnection of parts]) and the trigger switch (9) resiliently biased into engagement with the shaft (via tension/friction generated by 22), but do not disclose the plunger shaft with a notch in the plunger shaft. Stine et al. discloses a plunger shaft (31) with a notch (42) between proximal and distal ends and where the trigger switch is resiliently biased into engagement with the notch. It would have been obvious to a person of ordinary skill in the art to modify the plunger shaft of Zoz and Winnicki such that it has a notch between its ends in view of Stine et al. in order to provide means for positively engaging the trigger switch to the plunger shaft and thus only allow the device to be activated when a user depresses the trigger such that the notch in the plunger shaft is overcome versus the binding arrangement in Zoz.

14. Claims 24, 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over German Pat. No. 3225330 to Zoz in view of Schuman 3,965,608 and Winnicki 4,733,495.

Zoz discloses a tubular housing (6); a collection member with a collection tube (3) and releasably disposed on an upstream end portion of the housing (at 4); a partition in the collection tube (14); a closure on an upstream end of the collection tube (between 1 & 2); a compression chamber (7, 18), but does not disclose the housing having a

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purge port. Schuman discloses the housing with a purge port (32, 35). It would have been obvious to a person of ordinary skill in the art to employ the purge port of Schuman in the housing of Zoz in order to direct exhausted air in a transverse direction away from any insects to which the device may be directed so as not to scare the intended target insects located near the distal end of the device.

Zoz discloses an obstruction (12), but does not disclose the closure moveable between open and closed orientations. Winnicki discloses the closure (86) being moveable between open and closed orientations. It would have been obvious to a person of ordinary skill in the art to substitute the movable closures of Winnicki for the obstruction of Zoz in order to provide means which will assuredly seal off the housing and prevent any insects from escaping from the free end thereof.

In regard to claim 28, Zoz, Schuman, and Winnicki disclose the closure including an annular ring (67 of Winnicki) adapted to fit over the collection tube (68 of Winnicki) and a plurality of closure flaps (86 of Winnicki).

15. Claim 25, 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over German Pat. No. 3225330 to Zoz in view of Schuman 3,965,608 and Winnicki 4,733,495 as applied to claim 24 above, and further in view of Mah 6,202,343.

Zoz, Schuman, and Winnicki do not disclose the collection being transparent. Mah discloses a collection tube (29) which is transparent (31). It would have been obvious to modify the collection tube of Zoz, Schuman, and Winnicki such that it is transparent in view of Mah in order to allow the user to view the contents of the

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collection tube to see what has been caught so that it may be determined when the collection tube needs to be emptied.

In regard to claim 26, Zoz, Schuman, and Winnicki disclose the screen mesh seated within the collection tube (see Zoz), but do not disclose the collection tube having a circmferential groove formed therein wherein the mesh is seated against the groove. Mah discloses a tube (29) with a groove (61, 63) in which the screen mesh (51) is seated. It would have been obvious to modify the collection tube of Zoz, Schuman, and Winnicki such that it has a groove therein for seating the screen mesh in view of Mah in order to securely maintain the position of the screen mesh inside the collection tube so that it does not shift during use.

16. Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over German Pat. No. 3225330 to Zoz in view of Schuman 3,965,608 and Winnicki 4,733,495 as applied to claim 24 above, and further in view of Septer 6,226,919.

Zoz, Schuman, and Winnicki disclose the screen mesh seated within the collection tube (see Zoz), but do not disclose the collection tube having a circmferential groove formed therein wherein the mesh is seated against the groove. Septer discloses a tube (2 or 2a) with a groove (2e) in which the screen mesh (21, 21a) is seated. It would have been obvious to modify the collection tube of Zoz, Schuman, and Winnicki such that it has a groove therein for seating the screen mesh in view of Septer in order to securely maintain the position of the screen mesh inside the collection tube so that it does not shift during use.

17. Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over German

Pat. No. 3225330 to Zoz, Schuman 3,965,608, Winnicki 4,733,495, and Mah 6,202,343

or Septer 6,226,919 as applied to claim 26 above, and further in view of Jolly 1,308,497.

Zoz, Schuman, Winnicki and Mah or Septer do not disclose the screen mesh which tapers in the upstream direction. Jolly discloses a screen mesh (8) which tapers in the upstream direction. It would have been obvious to a person of ordinary skill in the art to modify the screen of Zoz, Schuman, Winnicki, and Mah or Septer such that it tapers in the upstream direction in view of Septer in order to direct any captured insects toward the sides and away from the main airway down the center to thereby maintain maximum capable airflow.

#### Conclusion

18. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Rector 1,807,550 discloses a baffle plate or door (23) hingedly mounted at (24) and which is biased into the first or closed position by spring (25); Septer '919 discloses telescoping housing sections (2a, 2d); Studler '384 discloses a door (26) biased by a coil spring (28a); Lockwood '063 discloses a plurality of tubular sections (2; also see Fig. 2) that allow the device to be selectively extensible; Keiser '770 discloses a compression chamber (5) with a purge valve (4) over an opening (17).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Darren W. Ark whose telephone number is (703) 305-3733. The examiner can normally be reached on M-Th, 8:00am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter M. Poon can be reached on (703) 308-2574. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Darren W. Ark Primary Examiner Art Unit 3643

DWA